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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/081,554	02/22/2002	Hiroto Yoshii	B588-027	4281	
26272	7590 11/02/2005		EXAMINER		
COWAN LIEBOWITZ & LATMAN P.C.			LIN, JI	LIN, JERRY	
JOHN J TORF 1133 AVE OF	RENTE THE AMERICAS		ART UNIT	PAPER NUMBER	
NEW YORK,	NY 10036		1631		

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/081,554	YOSHII, HIROTO		
Office Action Summary		Examiner	Art Unit		
		Jerry Lin	1631		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address		
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status			·		
1)⊠	Responsive to communication(s) filed on 19 Au	<u>ugust 2005</u> .			
	This action is FINAL . 2b) This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-11 and 13-51 is/are pending in the at 4a) Of the above claim(s) 22-45,49 and 50 is/are Claim(s) is/are allowed. Claim(s) 1-11,13-21,46-48 and 51 is/are rejected Claim(s) is/are objected to. Claim(s) 1-11 and 13-51 are subject to restriction	e withdrawn from consideration.			
Applicati	on Papers				
9) 🔲 .	The specification is objected to by the Examiner	r.			
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.		
	Applicant may not request that any objection to the o		, ,		
14)[7]	Replacement drawing sheet(s) including the corrections and proceedings to a proceed to but the Events of the correction in a proceeding the correction in a procedure in a proceeding the correction in a proceeding the		· · · · · · · · · · · · · · · · · · ·		
	The oath or declaration is objected to by the Example 25 I. 2. 2. 3.442	aminer. Note the attached Office	Action or form P1O-152.		
	nder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage		
Attachment	• •				
1) Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da			
3) 🔲 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		Patent Application (PTO-152)		

DETAILED ACTION

Applicants' arguments, August 12, 2005, have been fully considered and they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-11, 13-21, 46-48, and 51 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is a NEW MATTER rejection.

Applicants have amended instant claims 1 and 46 to include the limitation "hierarchized" tree in line 4 and line 5 respectively. This limitation does not have a basis in the specification as filed and is therefore NEW MATTER. The closest discussion of a "hierarchized" tree found in the specification is the discussion of determination trees (e.g., page 12 of the specification). However a "hierarchized" tree has a different scope

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than a determination tree. For example, a "hierarchized" tree is any ordered tree, whereas a determination tree is a tree wherein a final determination is made. A "hierarchized" tree does not necessarily have to lead to a determination, nor does a determination tree necessarily have to be hierarchical. Given that the scope of these terms are different and that the term "hierarchized tree" does not have a basis in the specification as filed, the amended claims contain NEW MATTER.

This rejection is necessitated by amendment.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 51 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the method steps of designing a probe after the probe candidate is obtained by performing the method of claim 1.

This rejection is necessitated by amendment.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-11, 13-21, 46-48, and 51 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

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The applicants have responded to this rejection by amending claims 1 and 46 to include the limitation of " . . . a determination step of determining a partial base sequence as a probe candidate that is utilized for designing a base sequence to be used as a probe which is hybridized with a nucleic acid fragment to perform analysis . . " and "an output step of outputting the probe candidate." However the amended claims still do not require any performance of a result outside of a computer. The first mentioned step remains a step of determining a partial base sequence as a probe candidate. The additional language added to that step is a description what the probe candidate is intended to do and is not a physical step outside the computer. Thus this step remains a manipulation or conversion of data.

In addition, the step of outputting also does not necessarily require a physical performance outside the computer. Outputting the identity of the probe candidate may occur between databases or between internal hard drives. Thus, the outputting remains within the computer.

In regards to claims 46-48 and 51, the MPEP at section 2106, Part IV, subpart B, also states that claiming non-statutory subject matter, such as in instant claim 1, on a computer medium or in software does not prevent this rejection.

This rejection is maintained from the previous office action and necessitated by amendment.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Lin whose telephone number is (571) 272-2561. The examiner can normally be reached on 6:30-5:00, M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, Ph.D. can be reached on (571) 272-0718. The fax phone

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number for the organization where this application or proceeding is assigned is (571) 273-8300.

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JL

ARDIN H. MARSCHEL SUPERVISORY PATENT EXAMINER